

## A thought to start our day together...

The capacity to learn is a *gift*; the ability to learn is a *skill*; the willingness to learn is a *choice*.

Brian Herbert

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## HANDOUT PAGE 2

### OUTCOMES

#### Participants will:

- learn about an instructional framework for designing high-quality classroom instruction that increases the likelihood that students will master the content of the standards;
- deepen understanding of research-based elements of instruction; and
- explore formal and informal options for assessing student learning and using the results to plan next steps for supporting all learners.



"Educational research suggests that the single most influential component of an effective school is the individual teachers within the school."

"Robert J. Marzano"

#### Three Critical Interventions (COMMITMENTS):

- A system of individual clear learning goals connected to student feedback and evaluation at the classroom, school, and district levels
- Ensuring effective teaching in every classroom
- Building background knowledge for all students

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## Great Educators...



- Are first and foremost learners who have a *teachable* spirit.
- Are constantly looking to **improve** their skills in the craft of teaching and learning.

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## Today's Learning Outcomes...

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# AFFIRMATION

# REMINDER

# NEW LEARNING



# 2 “With a Partner” Time



**PARTNERS**

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# 3

**feedback** (specific information provided to and from the teacher and learner to clarify and guide learning)

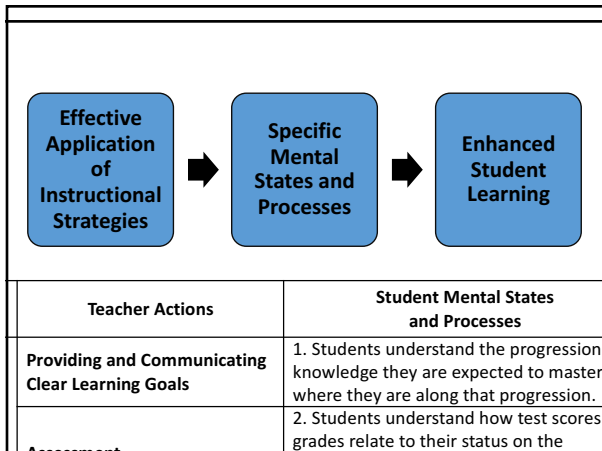
**content** (the ways in which lessons typically progress from direct instruction through use and review of the knowledge and skills being learned)

**context** (addressing the psychological needs of students—things like engagement, a sense of belonging, and high expectations)

*These are suggested as considerations as a teacher plans daily lessons.*

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THE NEW ART AND SCIENCE OF TEACHING		
FEEDBACK	CONTENT	CONTEXT
<b>Providing and Communicating Clear Learning Goals</b> 1. Providing Scales and Rubrics 2. Tracking Student Progress 3. Celebrating Success  <b>Assessment</b> 4. Informal Assessments of the Whole Class 5. Formal Assessments of Individual Students	<b>Direct Instruction Lessons</b> 6. Chunking Content 7. Processing Content 8. Recording and Representing Content  <b>Practicing and Deepening Lessons</b> 9. Structured Practice Sessions 10. Examining Similarities and Differences 11. Examining Errors in Reasoning  <b>Knowledge Application Lessons</b> 12. Engaging Students in Cognitively Complex Tasks 13. Providing Resources and Guidance 14. Generating and Defending Claims  <b>Strategies That Appear in All Types of Lessons</b> 15. Previewing 16. Highlighting Critical Information 17. Reviewing Content 18. Revising Knowledge 19. Reflecting on Learning 20. Purposeful Homework 21. Elaborating on Information 22. Organizing Students to Interact	<b>Engagement</b> 23. Noticing When Students Are Not Engaged and Reacting 24. Increasing Response Rates 25. Using Physical Movement 26. Maintaining a Lively Pace 27. Demonstrating Interest and Enthusiasm 28. Presenting Unusual Information 29. Using Friendly Controversy 30. Using Academic Games 31. Providing Opportunities for Students to Talk About Themselves 32. Motivating and Inspiring Students  <b>Rules and Procedures</b> 33. Establishing Rules and Procedures 34. Organizing the Physical Layout of the Classroom 35. Demonstrating Willingness 36. Acknowledging Adherence to Rules and Procedures 37. Acknowledging Lack of Adherence to Rules and Procedures  <b>Relationships</b> 38. Using Verbal and Nonverbal Behaviors that Indicate Affection for Students 39. Understanding Students' Backgrounds and Interests 40. Displaying Objectivity and Control  <b>Communicating High Expectations</b> 41. Demonstrating Value and Respect for Reluctant Learners 42. Asking In-Depth Questions of Reluctant Learners 43. Probing Incorrect Answers with Reluctant Learners

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AN INSTRUCTOR GENERALLY SAYS 100-200 WORDS A MINUTE AND A STUDENT ONLY HEARS 50-100—HALF.

STUDENTS RETAIN ABOUT 70% OF WHAT THEY HEAR IN THE FIRST 10 MINUTES OF CLASS

WORSE YET, IN A TYPICAL CLASS, STUDENTS ARE JUST 40 PERCENT OF WHAT THEY HEAR IN THE FIRST 10 MINUTES OF CLASS



**MIX 'N MINGLE**

= Move  
around the  
room

**MIX 'N MINGLE**

= Stop to find  
a discussion  
partner



What is important to  
remember about the  
structure of *The New Art  
and Science of Teaching*?  
Please include 3, 10, 43 in  
your discussion.



Discuss the terms **learning  
goal** and **learning target**.  
How are the two words  
related?  
Why are these important to  
identify?



What is a proficiency scale?  
What are some of the  
possible uses of a  
proficiency scale in the  
classroom?



What are some important  
considerations for chunking  
content?  
How about for processing  
content?





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## Three Non-Negotiables of Every Lesson of Instruction

- 1) Quality planning
- 2) Quality content delivery
- 3) Quality informal and/or formal assessment

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THE NEW ART AND SCIENCE	
FEEDBACK	CONTENT
<b>Providing and Communicating Clear Learning Goals</b> <ol style="list-style-type: none"> <li>1. Providing Scales and Rubrics</li> <li>2. Tracking Student Progress</li> <li>3. Celebrating Success</li> </ol>	<b>Direct Instruction Lessons</b> <ol style="list-style-type: none"> <li>6. Chunking Content</li> <li>7. Processing Content</li> <li>8. Recording and Representing Content</li> </ol>
<b>Assessment</b> <ol style="list-style-type: none"> <li>4. Informal Assessments of the Whole Class</li> <li>5. Formal Assessments of Individual Students</li> </ol>	<b>Practicing and Deepening Lessons</b> <ol style="list-style-type: none"> <li>9. Structured Practice Sessions</li> <li>10. Examining Similarities and Differences</li> <li>11. Examining Errors in Reasoning</li> </ol>
	<b>Knowledge Application Lessons</b> <ol style="list-style-type: none"> <li>12. Engaging Students in Cognitively Complex Tasks</li> <li>13. Providing Resources and Guidance</li> <li>14. Generating and Defending Claims</li> </ol>
	<b>Strategies That Appear in All Types of Lessons</b> <ol style="list-style-type: none"> <li>15. Reviewing</li> </ol>

Informal assessments of the whole class are meant to provide a barometer of how the whole class is performing regarding the progression of knowledge articulated in a specific proficiency scale. Informal assessments of the whole class typically don't involve recorded scores for individual students.

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## Additional thinking...

- Everyday interactions are potential assessment opportunities.
- Informal assessments embed assessment into activities already occurring in the classroom.
- Quick, spontaneous, "on-the-fly", flexible

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What informal assessment strategies did I use yesterday?

What informal assessment strategies do you use in your classroom?

Please record these on handout page 7.

FEEDBACK	
Providing and Communicating Clear Learning Goals	
Element 1 Providing Scales and Rubrics	
Element 2 Tracking Student Progress	
Element 3 Celebrating Success	
FEEDBACK	
Assessment	
Element 4 Informal Assessments of the Whole Class	
Element 5 Formal Assessments of Individual Students	


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Let's check our understanding....


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**Fist to Five Check**


 I completely understand

 I mostly understand


 I understand pretty well

 I could use more practice

 I need help

 I don't understand at all

## Think-Pair-Share

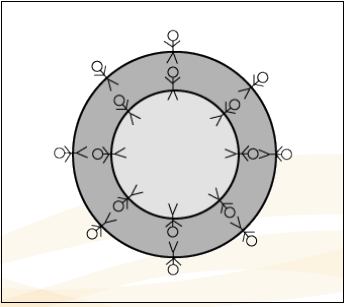


According to 5<sup>th</sup> grader Abby, "I feel very good inside because when someone else hears my thoughts and understands them, then they tell me what was good about what I said."


*This strategy is a simple but powerful tool that should be used repeatedly and consistently throughout the day!*

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## Inside-Outside Circle



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## Have you done a Scoot?

- Write content questions (enough so there is one on every desk).
- Give each student a response sheet (depending on level, they can respond with A,B,C or single words or sentences).
- Each child goes to a desk and reads the question on the card and marks their response on their sheet. At the teacher's signal, they move to the next desk.

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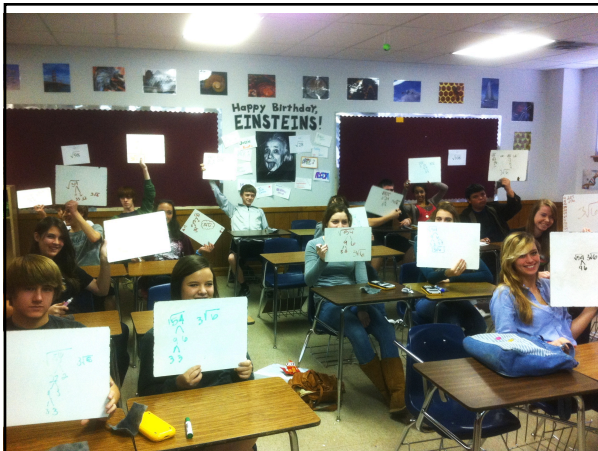
## Hold-Ups



- Number Card
- True/Not True
- Multiple-choice
- Whiteboard

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## Have you heard about Plickers?

- [www.plickers.com](http://www.plickers.com)
- Free app you download on teacher's phone or ipad
- Each student has a card (get online)
- Students hold up answer to multiple choice question
- Teacher scans with device
- Almost instantly tells you which student has which answer
- Can use the same set of cards for multiple class periods

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Strategies:  
Assess and Plan  
with Exit Tickets

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## PARTNER A – PARTNER B

It is effective instructional practice to state the following to students,

**“You need to know this because it is going to be on the test.”**

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## High-quality classroom assessment includes:

- On-going informal assessment of individual students and the group as a whole (determined by the individual teacher)
- Formal assessment of individual students and the group as a whole (determined by the individual teacher)
- Common assessments given across a grade level or course (determined by a group of teachers)
- Large scale assessment (MAP, PAWS, ACT, etc.)

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## Three types of assessment items to measure the knowledge and skills defined...

- Level 2 items:** Simpler details and processes that have been explicitly taught
- Level 3 items:** Complex ideas and processes that have been explicitly taught
- Level 4 items:** Inferences and applications that go beyond what was taught

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## EXAMPLE ASSESSMENT

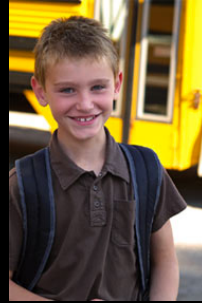
### HANDOUT PAGE 12

Measurement Topic	Standards
Multiplication	<b>4.OA.1</b> Interpret a multiplication equation as a comparison. <b>4.OA.2</b> Multiply to solve word problems involving multiplicative comparison. <b>4.NBT.5</b> Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

4.0	The learner will: ○ Select the quickest strategy to use to solve word problems that require multiplying whole numbers up to four digits by one-digit whole numbers or
-----	--

4.0	The learner will: ○ Select the quickest strategy to use to solve word problems that require multiplying whole numbers up to four digits by one-digit whole numbers or multiplying two two-digit numbers.
3.5	In addition to score 3.0 performance, partial success at score 4.0 content
3.0	The learner will: ○ Multiply to solve word problems involving multiplicative comparison. ○ Explain how to multiply a whole number of up to four digits by a one-digit whole number and how to multiply two two-digit numbers.
2.5	No major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content
2.0	The learner will: ○ Understand vocabulary, such as: comparison, equation, four-digit, multiply, one-digit, two-digit, word problem. ○ Interpret a multiplication equation as a comparison. ○ Use arrays and equations to represent multiplication situations. ○ Multiply a whole number of up to four digits by a one-digit whole number. ○ Multiply two two-digit numbers.





- One of three children
- Mom and Dad work blue collar jobs
- "School is hard."
- Reading below grade level
- HATES math...
- Quiet in the classroom and rarely asks questions, but willing to try

## HANDOUT PAGE 13

*JACK A.*

MULTIPLICATION COMMON ASSESSMENT  
Standards: 4.OA.A, 4.OA.B, 4.NBT.5

Part A:

1) Write an equation for the statement "61 is 7 times as many as 23."  
 $23 \times 7 = 161$

2) A factory makes 3,132 chairs each month. Write an equation that represents the total amount of chairs the factory makes in 9 months (you do not need to solve the equation).  
 $3,132 \times 9 = \text{the number of chairs in 9 months}$

3)  $5,089 \div 8 = 40,042$

4)  $47 \div 91 = 3,721$

Part B:

5) In one year, Jack sent 4,368 text messages. Tanner sent 4 times as many text messages as Jack. How many more text messages did Tanner send than Jack?

Part C:

6) Show at least two different ways to solve the following word problem, decide which way is quickest, and explain why you think so.

Casey spent 18 minutes coloring. She spent 15 times as long reading. How much time, in minutes, did Casey spend reading?  
 $18 \times 15 = 270$  minutes

7)  $10 \times 10 = 100$  and  $8 \times 6 = 48$   
 $50 \times 16 = 800$  and  $14 \times 8 = 112$

*Handwritten notes: "I think I should do 10 x 10 and 8 x 6. I think I should do 10 x 10 and 8 x 6. I think I should do 10 x 10 and 8 x 6."*

*JACK A.*

**2/6 = 33%**  
*Please see me!*

MULTIPLICATION COMMON ASSESSMENT  
Standards: 4.OA.A, 4.OA.B, 4.NBT.5

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**1.5** *JACK A.*  
*You're on your way!*

MULTIPLICATION COMMON ASSESSMENT  
Standards: 4.OA.A, 4.OA.B, 4.NBT.5

Part A:

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### Determining an Appropriate Summative Score for a Priority Standard

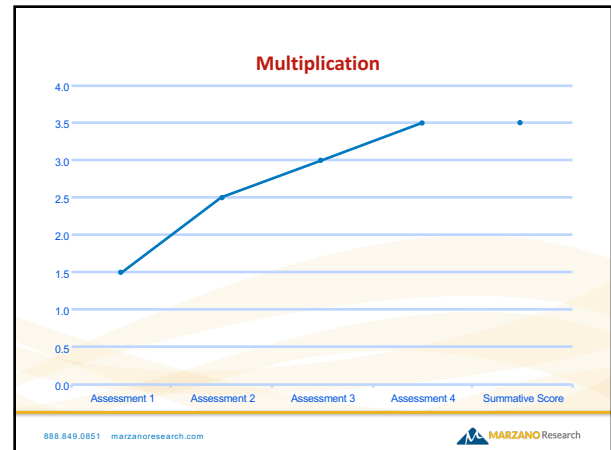
Student #1 Body of Evidence						
Standard(s)	Formative Score #1	Formative Score #2	Formative Score #3	Formative Score #4	Formative Score #5	Summative Score
Multiplication (4.OA.1, 4.OA.2, 4.NBT.5)	1.5	2.0	2.0	3.0	3.0	
Student #2 Body of Evidence						
Standard(s)	Formative Score #1	Formative Score #2	Formative Score #3	Formative Score #4	Formative Score #5	Summative Score
Multiplication (4.OA.1, 4.OA.2, 4.NBT.5)	2.0	3.0	3.5	3.0		



As we make decisions  
about student learning, we  
can **never** rely on a single  
assessment.

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Student #2 Body of Evidence						
Standard(s)	Formative Score #1	Formative Score #2	Formative Score #3	Formative Score #4	Formative Score #5	Summative Score
Multiplication (4.OA.1, 4.OA.2, 4.NBT.5)	2.0	3.0	3.5	3.0		
Student #3 Body of Evidence						
Standard(s)	Formative Score #1	Formative Score #2	Formative Score #3	Formative Score #4	Formative Score #5	Summative Score
Multiplication (4.OA.1, 4.OA.2, 4.NBT.5)	2.0	3.0	2.0	1.5	3.0	
Student #4 Body of Evidence						
Standard(s)	Formative Score #1	Formative Score #2	Formative Score #3	Formative Score #4	Formative Score #5	Summative Score
Multiplication (4.OA.1, 4.OA.2, 4.NBT.5)	4.0	3.5	3.5			



## Four "W"s Text Protocol

Adapted from Four "A"s Text Protocol from Judith Gray, Seattle, WA 2005

Read the text silently, highlighting it and writing notes in the margin in answer to the following four questions:

- What **Wisdom** does the author share in the text?
- What content do you **Wrestle** with in the text?
- What in the text causes you to **Wonder**?

What in the text can you weave into your work?

- Upon cue, have each person identify one piece of **wisdom** in the text, citing the text as evidence.
- Move through the remaining three questions, making sure each person's voice is heard.
- As a whole group, respond to the question, "What does this mean for our work?"

FEEDBACK	Design Question 1: <b>Providing and Communicating Clear Learning Goals</b>	How will I communicate clear learning goals that help students understand the progression of knowledge they are expected to master and where they are along that progression?
	Design Question 2: <b>Assessment</b>	How will I design and administer assessments that help students understand how their test scores and grades are related to their status on the progression of knowledge they are expected to master?
CONTENT	Design Question 3: <b>Direct Instruction</b>	When content is new, how will I design and deliver direct instruction lessons that help students understand which parts are important and how the parts fit together?
	Design Question 4: <b>Practicing and Deepening</b>	After content has been presented, how will I design and deliver lessons that help students deepen their understanding and develop fluency in skills and processes?
	Design Question 5: <b>Knowledge Application</b>	After content has been presented, how will I design and deliver lessons that help students generate and defend claims through knowledge application?
	Design Question 6: <b>Strategies That Appear in All Types of Lessons</b>	Throughout all types of lessons, what strategies will I use to help students continually integrate new knowledge with old knowledge and revise their understanding accordingly?
CONTEXT	Design Question 7: <b>Engagement</b>	What engagement strategies will I use to help students pay attention, be energized, be intrigued, and be inspired?
	Design Question 8: <b>Rules and Procedures</b>	What strategies will I use to help students understand and follow rules and procedures?
	Design Question 9: <b>Relationships</b>	What strategies will I use to help students feel welcome, accepted, and valued?
	Design Question 10: <b>Communicating High Expectations</b>	What strategies will I use to help typically reluctant students feel valued and comfortable interacting with me or their peers?



# THE “WET CEMENT” THEORY

## HANDOUT PAGE 17

DIRECT INSTRUCTION LESSONS	
<b>Element 6</b> Chunking Content	• Involves the teacher breaking the content into small chunks of information that can be easily processed by students
<b>Element 7</b> Processing Content	• Involves the teacher using a variety of strategies to allow students to process new knowledge
<b>Element 8</b> Recording and Representing Content	• Involves the teacher engaging students in activities that help them record their understanding of new content in linguistic and nonlinguistic ways

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17

Category	Average Effect Size	Percentile Gain
Identifying Similarities and Differences	1.61	45
Summarizing and Note Taking	1.00	34
Reinforcing Effort and Providing Recognition	.80	29
Homework and Practice	.77	28
Nonlinguistic Representations	.75	27
Cooperative Learning	.73	27
Setting Objectives/Providing Feedback	.61	23
Generating and Testing Hypotheses	.61	23
Questions, Cues, and Advance Organizers	.59	22

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## Research-Based Instruction

- 'Effect Size' is simply a way of quantifying the difference between two groups.
- For example, if an instructional strategy was used with one group and not the other, then the effect size is a measure of the effectiveness of the strategy on learning as compared to without it.

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What commonly happens when you ask students to take notes or summarize information?



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## Element 12: Record and Represent Knowledge

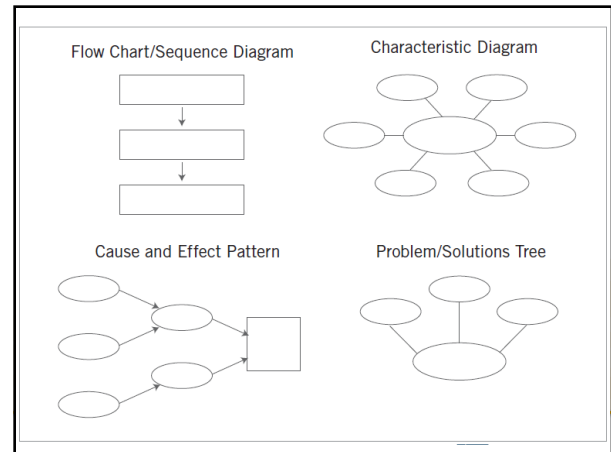


*Involves the teacher engaging students in activities that help them record their understanding of content in linguistic and nonlinguistic ways*

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*Involves the teacher engaging students in activities that help them record their understanding of content in **linguistic** and nonlinguistic ways*



## BEFORE DISCUSSION

## Strategies:

## Post Its

### Element 12: Record and Represent Knowledge

## AFTER DISCUSSION



**Academic Notebook Entry**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Subject: \_\_\_\_\_ Topic: \_\_\_\_\_

Details about what I learned:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_


Summary of what I learned:

Questions I have about what I learned:

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>
<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>
<b>S</b>	<b>T</b>	<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>
<b>Y</b>	<b>Z</b>				


**Element 12: Record and Represent Knowledge**

***DURING DISCUSSION***

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**Combination Notes**

Regular notes	Symbol, picture or graphic
Summary	

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	Identifying Critical Information			Previewing			Organizing Students to Interact	
			Identifying Critical Information	Previewing	Organizing Students to Interact			
	Reflecting on Learning		Reflecting on Learning	<b>ASOT DESIGN QUESTION #2</b>	Chunking Content		Chunking Content	
			Recording and Representing Knowledge	Elaborating on New Information	Processing of New Information			
	Recording and Representing Knowledge			Elaborating on New Information			Processing of New Information	





FEEDBACK	Design Question 1: <b>Providing and Communicating Clear Learning Goals</b>	How will I communicate clear learning goals that help students understand the progression of knowledge they are expected to master and where they are along that progression?
	Design Question 2: <b>Assessment</b>	How will I design and administer assessments that help students understand how their test scores and grades are related to their status on the progression of knowledge they are expected to master?
CONTENT	Design Question 3: <b>Direct Instruction</b>	When content is new, how will I design and deliver direct instruction lessons that help students understand which parts are important and how the parts fit together?
	Design Question 4: <b>Practicing and Deepening</b>	After content has been presented, how will I design and deliver lessons that help students deepen their understanding and develop fluency in skills and processes?
	Design Question 5: <b>Knowledge Application</b>	After content has been presented, how will I design and deliver lessons that help students generate and defend claims through knowledge application?
CONTEXT	Design Question 6: <b>Strategies That Appear in All Types of Lessons</b>	Throughout all types of lessons, what strategies will I use to help students continually integrate new knowledge with old knowledge and revise their understanding accordingly?
	Design Question 7: <b>Engagement</b>	What engagement strategies will I use to help students pay attention, be energized, be intrigued, and be inspired?
	Design Question 8: <b>Rules and Procedures</b>	What strategies will I use to help students understand and follow rules and procedures?
	Design Question 9: <b>Relationships</b>	What strategies will I use to help students feel welcome, accepted, and valued?
	Design Question 10: <b>Communicating High Expectations</b>	What strategies will I use to help typically reluctant students feel valued and comfortable interacting with me or their peers?

## HANDOUT PAGE 18


**PRACTICING AND DEEPENING LESSONS**

<b>Element 9</b> <i>Structured Practice Sessions</i>	• Involves the teacher engaging students in practice activities that help them develop fluency
<b>Element 10</b> <i>Examining Similarities and Differences</i>	• Involves the teacher helping students deepen their knowledge by examining similarities and differences between items
<b>Element 11</b> <i>Examining Errors in Reasoning</i>	• Involves the teacher helping students deepen their understanding of informational content by having them examine their own reasoning or the logic of the information presented to them

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## HANDOUT PAGE 19

**Element #9: Structured Practice Sessions**



*Desired Effect: Students perform the skill, strategy, or process with increased skill or confidence.*

**How can I help students practice skills, strategies, and processes?**


- ☐ Structure practice sessions spaced closely together.
- ☐ Plan for practice sessions that are gradually less structured and more varied.
- ☐ Plan for practice sessions that help students develop fluency.
- ☐ Consider cooperative learning strategies for practice activities. This can occur once students have engaged in some form of individual practice and then collaborate with peers to check their work or dialogue about what led to their correct/incorrect answer.

Chunk #1 7 minutes	Chunk #2 10 minutes	Chunk #3 13 minutes	Chunk #4 10 minutes	Chunk #5 10 minutes
Review of content from yesterday 5 minutes	New content 8 minutes	New content 10 minutes	Guided practice with close monitoring 8 minutes	Independent practice (once students demonstrate an adequate degree of success) 7 minutes
Processing opportunity 2 minutes	Processing opportunity 2 minutes	Processing opportunity 3 minutes	Processing opportunity 2 minutes	Processing opportunity 3 minutes

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## HANDOUT PAGE 18

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## HANDOUT PAGE 18

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## HANDOUT PAGE 20


**Element #10: Examining Similarities and Differences**

**Comparing is** • the process of identifying similarities and differences among or between things and ideas.

**Classifying is** • the process of grouping things that are alike into categories based on their characteristics.

**Creating Metaphors is** • the process of identifying a general or basic pattern that connects information that is not related on the literal or surface level.


**Creating Analogies is** • the process of identifying the relationship between two sets of items.



Category	Average Effect Size	Percentile Gain
Identifying Similarities and Differences	1.61	45
Summarizing and Note-taking	1.00	34
Reinforcing Effort and Providing Recognition	.80	29
Homework and Practice	.77	28
Nonlinguistic Representations	.75	27
Cooperative Learning	.73	27
Setting Objectives/Providing Feedback	.61	23
Generating and Testing Hypotheses	.61	23
Questions, Cues, and Advance Organizers	.59	22

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Identifying Similarities and Differences

## Identifying Similarities and Differences

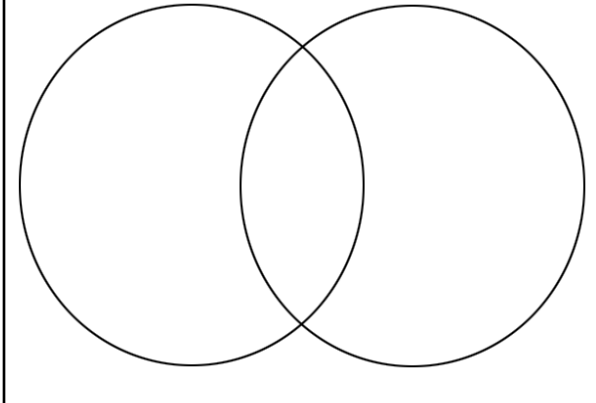
### Effective tools include:

- Venn diagrams
- Comparison matrix
- Classifying activities
- Concept maps
- Graphic organizers
- T charts
- Pro and con grids
- Metaphors and analogies

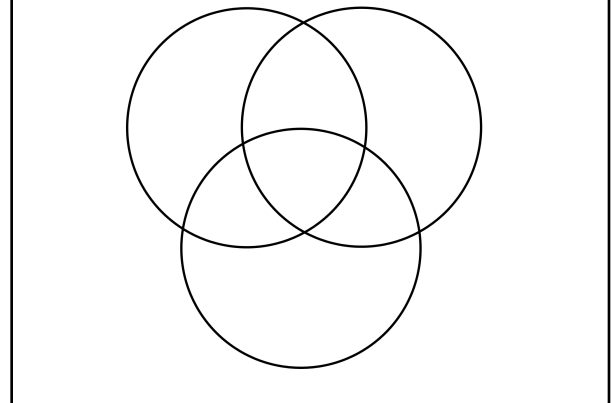
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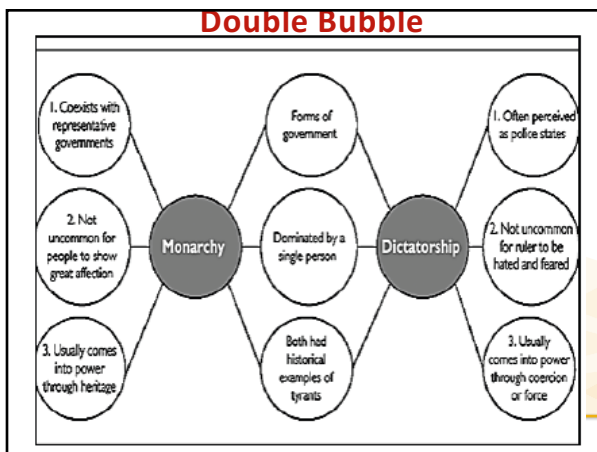
## Double Venn Diagram



## Triple Venn Diagram



## Double Bubble



### Sentence Stem for Comparing

\_\_\_\_\_ and \_\_\_\_\_ are similar because they both \_\_\_\_\_.

\_\_\_\_\_ and \_\_\_\_\_ are different because \_\_\_\_\_ is \_\_\_\_\_, but \_\_\_\_\_ is \_\_\_\_\_.

\_\_\_\_\_ is \_\_\_\_\_, but \_\_\_\_\_ is \_\_\_\_\_.

\_\_\_\_\_ is \_\_\_\_\_, but \_\_\_\_\_ is \_\_\_\_\_.

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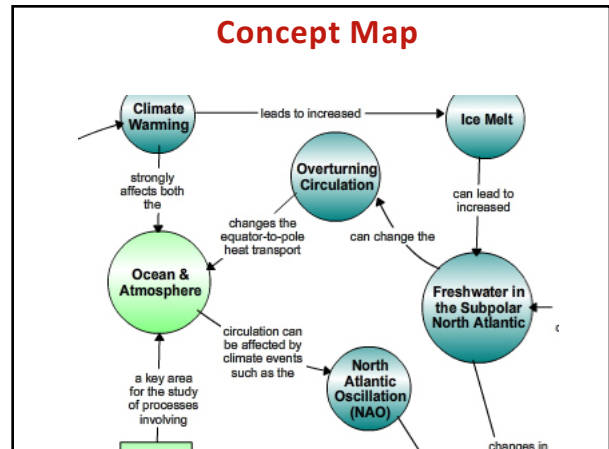
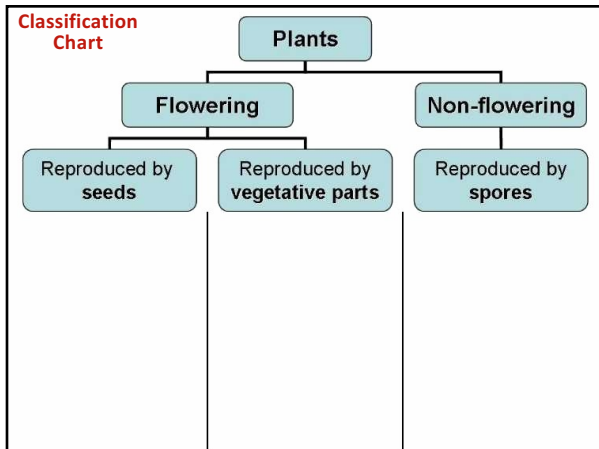
T-Chart



**Classification Chart**

Characters that Overcame Hardship	Characters that Had Unique Personalities	Characters that Experienced Significant Change

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**Pro/Con Grid**

Decision Grid I

Identify the problem: \_\_\_\_\_

Choices	Benefits	Costs

**Examining similarities and differences...**

- Can be effectively taught by using:
  - Teacher-Directed Tasks
  - Student-Directed Tasks
  - Graphic Organizers

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### Teacher-directed tasks...

- Give students more of the essential information they will need to complete the task.

### Student-directed tasks...

- Used when students have become more skilled at using a particular reasoning process.

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### Teacher-Directed Comparison Matrix

Characteristics	Solids	Liquids	Gases	Comparisons
Particle Size				Similarities
				Differences
Space between Particles				Similarities
				Differences
Fills the shape of its container				Similarities
				Differences
Compression				Similarities
				Differences

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### Student-Directed Comparison Matrix

Characteristics	Solids	Liquids	Gases	Comparisons
				Similarities
				Differences
				Similarities
				Differences
				Similarities
				Differences
				Similarities
				Differences

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### Similarities and Differences

- **Comparing is**
  - the process of identifying similarities and differences among or between things and ideas.
- **Classifying is**
  - the process of grouping things that are alike into categories based on their characteristics.
- Creating Metaphors is**
  - the process of identifying a general or basic pattern that connects information that is not related on the literal or surface level.
- Creating Analogies is**
  - the process of identifying the relationship between two sets of items.

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Literary Devices				
Personification	Metaphor	Onomatopoeia	Hyperbole	Alliteration

Love is a roller coaster  
old as the hills  
lightning dances across the sky  
buzz  
Fred's friends  
did it a million times  
buzzing bees  
time is money

Thump  
book flew off the shelf  
laughter is music to the soul  
magnificent mountains  
upside  
dying of shame  
flowers are begging for water

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**1**

- Work with your elbow partner to review what each of these literary devices is...feel free to use technology during your review process.

- Personification
- Metaphor
- Onomatopoeia
- Hyperbole
- Alliteration

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## CHOOSE ONE OR ONE OF YOUR OWN...

\_\_\_\_\_ is true about personification,  
while \_\_\_\_\_ is true about hyperbole.

A metaphor is different from a hyperbole in  
that \_\_\_\_\_.

Alliteration and onomatopoeia both  
\_\_\_\_\_.

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Literary Devices				
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Book flew off the shelf	Time is money	Thump	Did it a million times	Fred's friends
Flowers begging for water	Laughter is music to the soul	Splash	Dying of shame	Magnificent mountains

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## Identifying Similarities and Differences

### Effective tools include:

- Venn diagrams
- Comparison matrix
- Classifying activities
- Concept maps
- Graphic organizers
- T charts
- Pro and con grids
- Metaphors and **analogies**

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## Creating Analogies



The process of **identifying relationships** between **two sets of items**.

*Analogies help us see how seemingly dissimilar things are similar, increasing our understanding of new information.*

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## Analogies

A is to B

\_\_\_\_\_

(relationship)

as

C is to D

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**A key with these is that students must explain the relationship.**



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## Creating & Solving Analogies

Bone is to skeleton as word is to \_\_\_\_\_.

Rhythm is to music as \_\_\_\_\_ is to \_\_\_\_\_.

\_\_\_\_\_ is to New York City as \_\_\_\_\_ is to \_\_\_\_\_.

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**HANDOUT  
PAGE 18**


**PRACTICING AND DEEPENING LESSONS**

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**Examining Errors in Reasoning**

- Primary intellectual skill (Costa, 2001)
- A powerful way to deepen understanding of critical knowledge



**HANDOUT  
PAGE 22**

**Element #11:  
Examining  
Errors in Reasoning**



**If students are able to examine their own reasoning, they:**


- ☐ Can describe errors or informal fallacies in information.
- ☐ Can evaluate the efficiency of a process.
- ☐ Can explain the overall structure of an argument presented to support a claim.
- ☐ Can identify errors in reasoning.
- ☐ Can identify support for their perspectives using the appropriate evidence.
- ☐ Can identify the supports behind multiple perspectives.
- ☐ Can identify the evidence used to support the claim of others in presented information.
- ☐ Can identify and take various perspectives.

**What We Can Do To Help Our Students Examine Their Reasoning**

- Use authentic examples with students.** Collect examples of errors in reasoning from everyday life (newspapers, internet, television, advertising, etc.). Use these examples to show students that faulty reasoning is everywhere. Invite students to bring examples to share in your classroom.
- Require students to provide justification.** Provide ongoing opportunities for students to explain their work and provide rationale for their processes and steps. Encourage multiple ways to solve problems and expect them to explain their thinking.
- Anticipate student errors and model them in the presentation of content.** Design lessons to incorporate common errors you anticipate students might make. Help them become aware of these common errors so that they can avoid pitfalls.
- Model and think aloud for students.**
- Give students enough "think time" to reason during class discussions.**

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**Errors in Reasoning**



**If students are able to examine their own reasoning, they:**

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**18. What do I typically do to help students examine information?**

When content is informational, the teacher helps students deepen their understanding of the logic of the information as presented to them.

Teacher Evidence	Student Evidence
<ul style="list-style-type: none"> <li><input type="checkbox"/> Teacher asks students to examine information for errors or informal fallacies such as:               <ul style="list-style-type: none"> <li>• Faulty logic</li> <li>• Attack</li> <li>• Weak reference</li> <li>• Misinformation</li> </ul> </li> <li><input type="checkbox"/> Teacher asks students to examine the strength of support presented for a claim by looking for the following:               <ul style="list-style-type: none"> <li>• Statement of a clear claim</li> <li>• Evidence for the claim presented</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> When information is presented</li> <li><input type="checkbox"/> Student explains the structure of the claim</li> <li><input type="checkbox"/> When the structure of the claim is presented</li> <li><input type="checkbox"/> When the structure of the claim is presented</li> </ul>



## Faulty Logic

=  
forming conclusions using  
unsound reasoning

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Give learners opportunities  
to find the errors in  
reasoning...

“Let them eat \_\_\_\_.”

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“Let them eat \_\_\_\_.”



But did she really???

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### Did Marie-Antoinette really say “Let them eat cake”?

Recommend 1.8k Send 35 Tweet 24

It's one of the most famous quotes in history. At some point around 1789, when being told that her French subjects had no bread, Marie-Antoinette (bride of France's King Louis XVI) supposedly sniffed, “Qu'ils mangent de la brioche”—“Let them eat cake.” With that callous remark, the queen became a hated symbol of the decadent monarchy and fueled the revolution that would cause her to (literally) lose her head several years later. But did Marie-Antoinette really say those infuriating words? Not according to historians. Lady Antonia Fraser, author of a biography of the French queen, believes the quote would have been highly uncharacteristic of Marie-Antoinette, an intelligent woman who donated generously to charitable causes and, despite her own undeniably lavish lifestyle, displayed sensitivity towards the poor population of France.

That aside, what's even more convincing is the fact that the “Let them eat cake” story had been floating around for years before 1789. It was first told in a slightly different form about Marie-Thérèse, the Spanish princess who married King Louis XIV in 1660. She allegedly suggested that the French people eat “la croûte de pâté” (or the crust of the pâté). Over the next century, several other 18th-century royals were also blamed for the remark, including two aunts of Louis XVI. Most famously, the philosopher Jean-Jacques Rousseau included the pâté story in his “Confessions” in 1766, attributing the words to “a great princess” (probably Marie-Thérèse). Whoever uttered those unforgettable words, it was almost certainly not Marie-Antoinette, who at the time Rousseau was writing was only 10 years old—three years away from marrying the French prince and eight years from becoming queen.

#### Related

Marie-Antoinette - Topic  
French Revolution - Topic

• What is the  
• Who survived  
• Who were

JUN 18  
LEAD STORY  
War of 18  
The day after  
Represent  
Great Brita  
declaration

Follow H  
HISTORY Fa  
Follow us on  
Sign up for e  
More to E

HISTOR  
ANTHROPOLOGY

information.  
☐ Can identify and take various perspectives.


**What We Can Do To Help Our Students Examine Their Reasoning**

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4. **Model and think aloud for students.**
5. **Give students enough “think time” to reason during class discussions.**

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## Three Non-Negotiables of Every Lesson of Instruction

- 1) Quality planning
- 2) Quality content delivery
- 3) Quality informal and/or formal assessment

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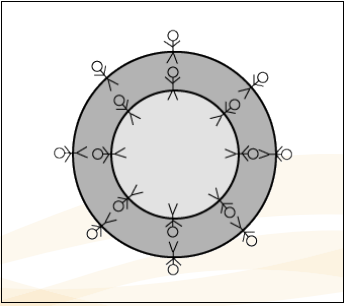


## Four “W”s Text Protocol



Adapted from *Four “A”s Text Protocol* from Judith Gray, Seattle, WA 2005

1. Read the text silently, highlighting it and writing notes in the margin in answer to the following four questions:
  - What **Wisdom** is shared in the text?
  - What content do you **Wrestle** with in the text?
  - What in the text causes you to **Wonder**?
  - What in the text can you **Weave** into your work?
2. Upon cue, have each person identify one piece of **wisdom** in the text, citing the text as evidence.
3. Move through the remaining three questions, making sure each person’s voice is heard.
4. As a whole group, respond to the question, “What implications does the article present to us as we use assessments in our classrooms?”


## Inside-Outside Circle




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What wisdom is shared in the text?  
 What content do you wrestle with in the text?  
 What in the text causes you to wonder?  
 What in the text can you weave into your work?



What **wisdom** is shared in the text?  
 What content do you wrestle with in the text?  
 What in the text causes you to wonder?  
 What in the text can you weave into your work?



What wisdom is shared in the text?  
 What content do you **wrestle** with in the text?  
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 What in the text can you weave into your work?





**What wisdom is shared in the text?**

**What content do you wrestle with in the text?**

**What in the text causes you to **wonder**?**

**What in the text can you weave into your work?**



**What wisdom is shared in the text?**

**What content do you wrestle with in the text?**

**What in the text causes you to wonder?**

**What in the text can you **weave** into your work?**

**HANDOUT  
PAGE 29**

**DAILY LESSON PLAN**

Unit: \_\_\_\_\_ Week: \_\_\_\_\_ Day: \_\_\_\_\_

What will I do to remind students about the instructional goals and how today's class fits into those goals?

Will I use a "hook" or "bell-ringer" in today's class?

What specific resources will I use in today's class (direct instruction, Facilitating and Deepening, Knowledge Application)?

How will I assess students during the class period?

- Instructional Feedback in the whole class level
- Assessments of individual students

What activities will I use to ensure high engagement?

Are there specific students in class to whom I should pay particular attention and what actions will I take with those students?

- Monitor student self and peer progress?
- Build early interest with the students to foster a positive relationship?
- Be out of my way to interact with individual students?

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thanks for the great day!

**jan.hoegh@marzanoresearch.com**